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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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DATE MAILED: 10/05/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Appli	cation No.	Applicant(s)			
Office Action Summary			76,058		BRANDENBERGER ET AL.		
		Exam	iner	Art Unit			
		Gevel	ll Selby	2615			
Period fo	The MAILING DATE of this communi or Reply	cation appears or	n the cover sheet v	with the correspondence a	ddress		
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MINISTRANGE OF	AILING DATE OF of 37 CFR 1.136(a). In a unication. atutory period will apply a will, by statute, cause the	F THIS COMMUN no event, however, may a and will expire SIX (6) MC e application to become a	IICATION. A reply be timely filed DNTHS from the mailing date of this ABANDONED (35 U.S.C. § 133).			
Status							
1)🛛	Responsive to communication(s) file	d on 31 August 2	2005.				
·	-	2b)⊠ This action					
3)	,—						
,—	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	on of Claims						
4)⊠	Claim(s) 1-20 is/are pending in the a	pplication.					
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)	Claim(s) is/are allowed.						
6)🛛	Claim(s) <u>1-20</u> is/are rejected.						
7)	Claim(s) is/are objected to.	•					
8)□	Claim(s) are subject to restrict	tion and/or electi	on requirement.				
Applicat	on Papers						
9) The specification is objected to by the Examiner.							
10)🖂	The drawing(s) filed on <u>02 February</u>	<u>2001</u> is/are: a)⊠] accepted or b)□	objected to by the Exam	niner.		
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
	Replacement drawing sheet(s) including	the correction is re	equired if the drawin	g(s) is objected to. See 37 (CFR 1.121(d).		
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority (under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachmen			_				
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (P	TO-948\		/ Summary (PTO-413) o(s)/Mail Date			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 6) Other:							

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 8/31/05 has been entered.

Response to Arguments

2. Applicant's arguments with respect to claims 1-20 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1, 2, 4, 5, and 7-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Anderson, US 6,683,649, in view of Kim, US 6,137,532.

In regard to claim 1, Anderson, US 6,683,649, discloses a digital camera (see figure 1) comprising:

an optical lens system providing an optical image (see column 5, line 34), an image sensor sensing simultaneously multi-color pixel data corresponding to said optical image (see column see column 4, lines 11-14: it is inherent the senses simultaneously multi-color pixel data because the pixels are arranged in the Bayer format);

an input device (see figure 1, element 140) configured to respond to a manual input (see column 9, lines 44-46); and

a processor (see figure 1, element 116) configured to process said pixel data (see column 4, lines 18 and 19).

The Anderson reference does not disclose an input device configured to respond to a manual input selecting one of a plurality of image filters and a processor configured to process said pixel data in response to said selected image filter to provide filtered image data.

Kim, 6,137,532, discloses a color filter device of a digital camera which comprises an input device (see figure 2, element 222) configured to respond to a manual input selecting one of a plurality of image filters (see column 4, lines 7-10) and a processor (see figure 2, element 214) configured to process said pixel data in response to said selected image filter to provide filtered image data (see column 3, lines 21-27).

It would have been obvious to one of ordinary skill in the art at the time of invention to have been motivated to modify Anderson, US 6,683,649, in view of Kim, US 6,137,532 to have an input device configured to respond to a manual input selecting one of a plurality of image filters and a processor configured to process said pixel data in

response to said selected image filter to provide filtered image data, in order for the user to be able to edit the image to have a selected color without the use of a color filter, thus reduces the space needed to provide several color filter options.

In regard to claim 2, Anderson, US 6,683,649, in view of Kim, US 6,137,532, discloses the digital camera of claim 1 further comprising:

a display configured to provide a visual display of said filtered image data (see figure 2, element 140); the input device is a touch sensitive overlay provided on said display (see column 9, lines 43-46).

In regard to claim 4, Anderson, US 6,683,649, in view of Kim, US 6,137,532, discloses the digital camera of claim 1. Anderson discloses wherein the image sensor is a color Charged Coupled Device array (CCD) (see column 4, lines 10-14).

In regard to claim 5, Anderson, US 6,683,649, in view of Kim, US 6,137,532, discloses the digital camera of claim 1. Anderson discloses wherein the input device includes menu options (see figure 4A, element 310 and column 9, lines 44-47).

In regard to claim 7, Anderson, US 6,683,649, in view of Kim, US 6,137,532, discloses the digital camera of claim 1. Kim discloses wherein a subset of said plurality of image filters are selectable by said input device and said processor is configured to provide a composite filter effect in response to selected ones of said subset (see figure 3 and column 3, lines 39-60).

In regard to claim 8, Anderson, US 6,683,649, discloses an apparatus for recording digital images (figure 1) comprising:

a graphic user interface menu (see figures 13-17) displaying a selection of an editing effect available on a digital visual recording device (see column 14, line 5+);

a processor (see figure 1, element 116) configured to perform an adjustment of the properties of said digital visual recording device (see column 5, lines 40-52); and

an output providing an electronic representation of the edited image (see column 9, lines 1-13).

Anderson does not disclose editing and displaying an image using digital color filtering.

Kim, 6,137,532, discloses a color filter device of a digital camera which comprises an input device (see figure 2, element 222) configured to respond to a manual input selecting one of a plurality of image filters (see column 4, lines 7-10) and a processor (see figure 2, element 214) configured to process said pixel data in response to said selected image filter to provide filtered image data (see column 3, lines 21-27).

It would have been obvious to one of ordinary skill in the art at the time of invention to have been motivated to modify Anderson, US 6,683,649, in view of Kim, US 6,137,532 to have a color filter device wherein a color filtering option is displayed on the GUI, the processor adjusts the images with the selected filtering, and the display displays the filtered image, in order for the user to be able to edit the image to have a selected color without the use of a color filter, thus reduces the space needed to provide several color filter options.

In regard to claim 9, Anderson, US 6,683,649, in view of Kim, US 6,137,532, discloses the digital camera of claim 8. Anderson discloses wherein said menu is

configured to provide a hierarchical display of sad filter effects (see figures 13-17, elements 308a, b, and c).

In regard to claim 10, Anderson, US 6,683,649, in view of Kim, US 6,137,532, discloses the apparatus of claim 8. The Anderson reference discloses wherein said processor is configured to provide a preview of a filtered image (see figure 13, element 440 and 404: It is implied with the combination of Anderson and Kim will display the filtered image in window 440 when preview mode (404) is selected).

In regard to claim 11, Anderson, US 6,683,649, in view of Kim, US 6,137,532, discloses the apparatus of claim 8. Anderson discloses wherein said output includes a removable data storage media (see figure 1, element 122) capturing said electronic representation (see column 6, lines 20-21).

In regard to claim 12, Anderson, US 6,683,649, in view of Kim, US 6,137,532, discloses the apparatus of claim 8. Kim discloses wherein said filter effects include one of effects filters, technical filters, and correction filter (see column 2, lines 8-22: the color filter serves as both of or one of an effects filter and correction filter when editing the image).

In regard to claim 13, Anderson, US 6,683,649, in view of Kim, US 6,137,532, discloses the apparatus of claim 8. Kim discloses wherein said effect filters include variations in color intensity (column 5, lines 13-35).

In regard to claim 14, Anderson, US 6,683,649, in view of Kim, US 6,137,532, discloses the apparatus of claim 9. Kim discloses the processor selectively inhibits said

Application/Control Number: 09/776,058

Art Unit: 2615

filter effect in response to said input (see column 3, lines 28-37: when the original image signal is selected, the filtered signal is inhibited).

Page 7

5. Claims 15-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kim, US 6,137,532, in view of Anderson, US 6,683,649.

In regard to claim 15, Kim, US 6,137,532, discloses a method of combining filter effects into digital photography, said method comprising:

selecting a first filter (see figure 3: R-Y) on a digital recording device; selecting a second filter (see figure 3: B-Y) on a digital recording device; combining said first filter and said second filter to create a combined filtering effect (see column 3, lines 51-60: Red green and blue are combinations of the color difference signals);

adjusting properties of said digital recording device to include combined filtering effects (see column 4, lines 1-7).

Kim does not disclose:

outputting an image on an electronic media of said digital visual recording device which includes said combined filtering effects;

recording an image on an electronic media of said digital visual recording device which includes said combined filtering effects.

Anderson, US 6,683,649, discloses a method outputting digital photographing comprising:

outputting an image on an electronic media (see figure 1, element 140) of said digital visual recording device which has been edited (see column 9, lines 1-13) and

recording an image on an electronic media (see figure 1, element 122) of said digital visual recording device which has been edited (see column 6, lines 51-53 and column 9, lines 1-13).

It would have been obvious to one of ordinary skill in the art at the time of invention to have been motivated to modify Kim, US 6,137,532, in view of Anderson, US 6,683,649, to have the color filter device in a digital camera that performs outputting an image on an electronic media of said digital visual recording device which includes said combined filtering effects and recording an image on an electronic media of said digital visual recording device which includes said combined filtering effects, in order for the user of the camera to be able to edit the image to have a selected color without the use of a color filter, thus reduces the space needed to provide several color filter options. Therefore, the combination of Anderson in view of Kim would provide for all the limitations of the method claimed in claim 1.

In regard to claim 16, Kim, US 6,137,532, in view of Anderson, US 6,683,649, discloses the digital camera of claim 15. Anderson discloses wherein said menu is configured to provide a hierarchical display of sad filter effects (see figures 13-17, elements 308a, b, and c).

Application/Control Number: 09/776,058

Art Unit: 2615

Page 9

In regard to claim 17, Kim, US 6,137,532, in view of Anderson, US 6,683,649, discloses the method of claim 15. Anderson discloses wherein adjusting properties of said digital recording device includes providing a preview of said image which includes the filter effects (see figure 14, element 404 and 440. When preview (404) is selected the edited image is displayed in the window (440), thus it is implied with the combination the filtered image can also be previewed).

In regard to claim 18, Kim, US 6,137,532, in view of Anderson, US 6,683,649, discloses the apparatus of claim 15. Anderson discloses wherein said output includes a removable data storage media (see figure 1, element 122) capturing said electronic representation (see column 6, lines 20-21).

In regard to claim 19, Kim, US 6,137,532, in view of Anderson, US 6,683,649, discloses the method of claim 15. Kim discloses wherein said filter effects include one of effects filters, technical filters, and correction filter (see column 2, lines 8-22: the color filter serves as both of or one of an effects filter and correction filter when editing the image).

In regard to claim 20, Kim, US 6,137,532, in view of Anderson, US 6,683,649, discloses the method of claim 15. Kim discloses wherein said effect filters include variations in color intensity (column 5, lines 13-35).

6. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Anderson, US 6,683,649, in view of Kim, US 6,137,532, as described in regard to claim 1, and further in view of Shiomi, US 6,650,361.

Application/Control Number: 09/776,058 Page 10

Art Unit: 2615

In regard to claim 3, Anderson, US 6,683,649, in view of Kim, US 6,137,532, discloses the digital camera of claim 1. Neither reference discloses the camera comprises:

an image storage configured to implement lossy compression of said filtered image data to provide compressed image data, and store said compressed image data.

Shiomi, US 6,650,361, discloses a digital camera that uses lossy compression as a compression method and then stores the image in a memory (see column 11, lines 56-58). If lossy compression is done using Discrete Cosine transform to transform and quantize image data in the respective blocks into two-dimensional frequency data, the image data volume can be greatly reduced (column 11, lines 59-65).

It would have been obvious to a person of ordinary skill in the art to have been motivated to modify Anderson, US 6,683,649, in view of Kim, US 6,137,532, and further in view of Shiomi, US 6,650,361, to use lossy compression and store the compress data in memory, in order to reduce the image data volume to be stored as taught by Shiomi.

7. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Anderson, US 6,683,649, in view of Kim, US 6,137,532, as described in regard to claim 1, and further in view of Safai et al., US 6,167,469.

In regard to claim 6, Anderson, US 6;683,649, in view of Kim, US 6,137,532, discloses the digital camera of claim 1. Neither reference discloses a voice processor configured to respond to voice commands.

Application/Control Number: 09/776,058 Page 11

Art Unit: 2615

Safai et al., US 6,167,469, discloses a digital camera including a microphone and CPU that can receive voice command and voice messages (see column 6, lines 19-27).

It would have been obvious to a person skilled in the art to have been motivated to modify Anderson, US 6,683,649, in view of Kim, US 6,137,532, and further in view of Safai et al., US 6,167,469, to have a voice processor to receive commands from the user, in order to make operation easier by allowing the user not to have to push button.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gevell Selby whose telephone number is 571-272-7369. The examiner can normally be reached on 8:00 A.M. - 5:30 PM (every other Friday off).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Ometz can be reached on 571-272-7593. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DAVID L. OMETZ SUPERVISORY PATENT FXAMINER

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